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(54) **TRANSMITTER IN MOBILE COMMUNICATION SYSTEM, BAND SPREAD
SIGNAL DEVICE AND METHOD FOR GENERATING BAND SPREAD SIGNAL**

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce a peak to mean power ratio at an output terminal of the transmitter for a mobile communication system using lots of logical channels.

SOLUTION: The transmitter is provided with a multiplexer MUX 841 that applies time division multiplex processing to signals of a control channel and a pilot channel sent at a constant power, a pseudo orthogonal encoder 843 that applies band spread to an output of the multiplexer MUX 841 by using an orthogonal code, a pseudo-orthogonal encoder 845 that applies band spread to voice data having a fluctuation bit rate by using the orthogonal code, and a pseudo-orthogonal encoder 847 that applies band spread to packet data having a fluctuation bit rate by using the orthogonal code. An IQ mapper sums outputs of the pseudo-orthogonal encoders 843, 847 and outputs the sum as 1st channel signal and also produces an output of the pseudo-orthogonal encoder 845 as a 2nd channel signal. A PN spread device synthesizes the 1st and 2nd channel signals and a PN code in a PN spreader, and finally outputs the band-spreaded signals.

